



# KLS30F

## 30 WATT OPEN FRAME POWER SUPPLY



### FEATURES

- ✔ **LOW COST**
- ✔ **UNIVERSAL INPUT**
- ✔ **HIGH RELIABILITY**
- ✔ **OVERVOLTAGE PROTECTION**
- ✔ **OVERCURRENT PROTECTION**
- ✔ **SUPER SMALL SIZE**
- ✔ **HIGH EFFICIENCY**
- ✔ **COMPACT LOW PROFILE PACKAGE**
- ✔ **TWO YEAR WARRANTY**

### SAFETIES / EMI



### ELECTRICAL SPECIFICATIONS

All specifications are typical at nominal input, full load.

### INPUT SPECIFICATIONS

Input Voltage.....	85-264VAC
Input Frequency.....	47-63 Hz
Input Current (100V).....	0.2A (5V, 12V, 15V, 24V)
Inrush Current (100V, 50Hz).....	20A (Cold Start)

### OUTPUT SPECIFICATIONS

Output Voltage.....	See Chart
Output Voltage Adjustment Range.....	± 10% (Optional)
Over-Voltage Protection.....	Zener Limiter
Line Regulation.....	0.5%
Over-Current Protection.....	Automatic Recovery
Load Regulation.....	1.0%
Hold-Up Time.....	20 mS
Rise Time.....	200mS max. (At 25°C nominal input / output)
Drift.....	0.5% + 15mv
Leakage Current.....	0.5 mA or less
Ripple and Noise.....	5% + 50 mV

### GENERAL SPECIFICATIONS

MTBF.....	100,000 hrs.
Isolation Voltage	
Primary to Secondary.....	3000 VAC
Primary to FG.....	3000 VAC
Secondary to FG.....	500 VAC
Isolation Resistance.....	FG 50 MΩ (DC 500V)

### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature .....	0°-60°C
	Derates linearly 2.5%/°C after 50°C
Cooling.....	Convection
Temperature Coefficient.....	0.02% / °C
Storage Temperature.....	-20°C - +75 °C
Humidity.....	30% - 85% Rh (Non-condensing)

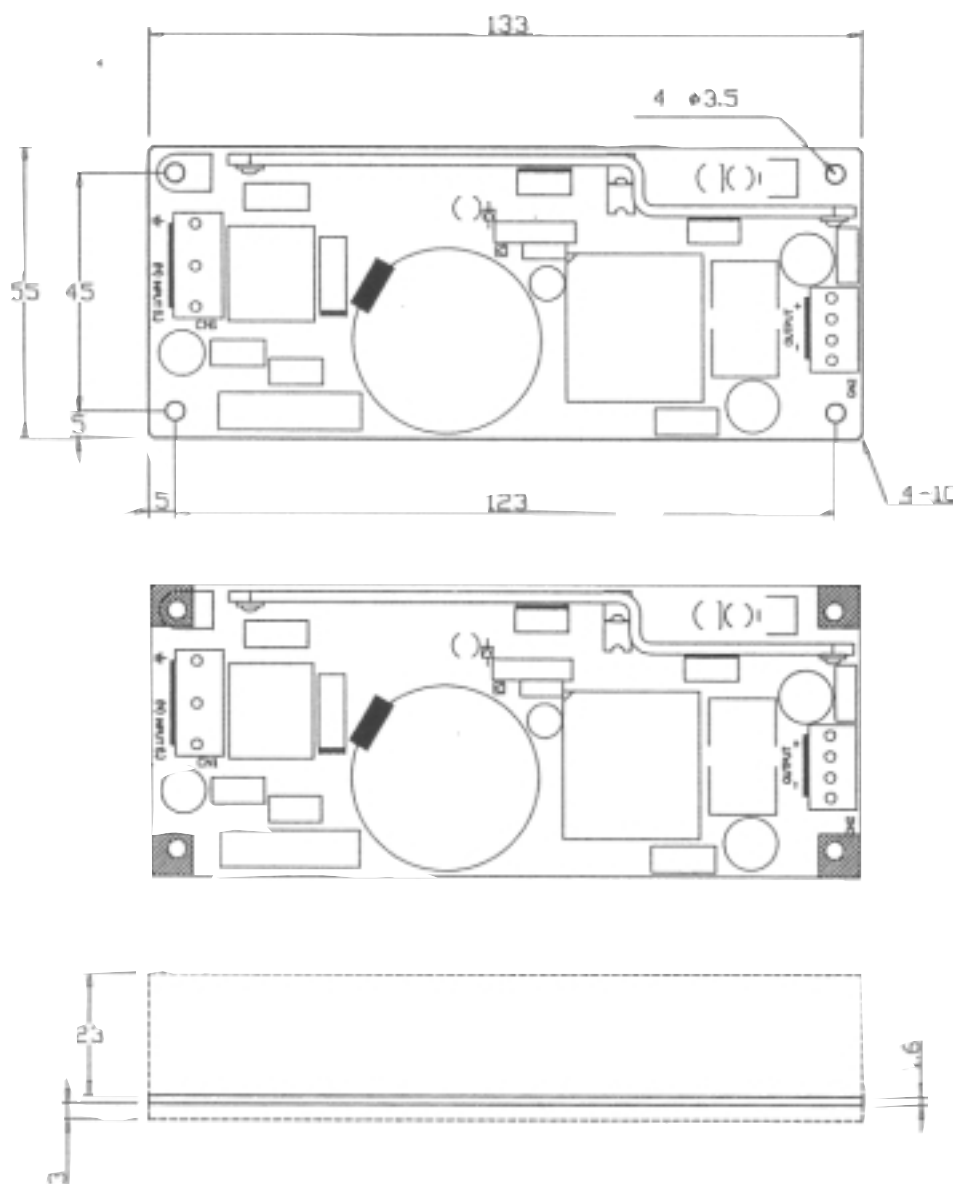
### PHYSICAL SPECIFICATIONS

Open Frame, Glass Epoxy PC Board

# Series

MODEL No.	INPUT RATING	OUTPUT VOLTAGE	OUTPUT CURRENT	EFFICIENCY AT 100% LOAD (TYP)
<b>KLS30F-05S</b>	100-230V 50-60HZ	5 VDC	6.0 A	70%
<b>KLS30F-12S</b>	100-230V 50-60HZ	12 VDC	2.5 A	70%
<b>KLS30F-15S</b>	100-230V 50-60HZ	15 VDC	2.0 A	71%
<b>KLS30F-24S</b>	100-230V 50-60HZ	24 VDC	1.3 A	72%

## KLS30F



**NOTE:**

All specifications typical and nominal / full load and 25°C unless otherwise noted.  
 Avoid sustained operation in overload or dead short conditions.  
 Specifications subject to changes without notice.

• Dimensions in mm